

Key Technical Data

NETZSCH

TMA 402 **F1/F3** Hyperion®

Max. sample length	30 mm
Measuring Range	5000 µm (total) / 500 µm
Dig. resolution (length)	1.25 nm / 0.125 nm
Force range	0.001 N to 3 N in steps of 0.2 mN (tension or pressure)
Dig. resolution (force)	< 0.01 mN
Modulated force	Up to 1 Hz (only F1)
Final vacuum pressure	< 10 ⁻⁴ mbar
Gas connections	Protective gas, 2 purge gases
MFC	Standard (F3 optional)

Standard System Configurations by Temperature Range¹

-150°C to 1000°C	Steel furnace with LN ₂ cooling, sample holder system of fused silica, Type K thermocouple
RT to 1550°C	SiC furnace, sample holder system of Al ₂ O ₃ , Type S thermocouple
-150°C to 500°C	Copper furnace; for measurements in humid atmospheres 0°C to 100°C

¹ Other configurations can be arranged at any time.